Sinclair and Dyes Inlets
Water Cleanup Plan for Bacteria
Community Advisory Committee Meeting
4/27/04

WASHINGTON STATE DEPARTMENT OF ECOLOGY


park
FRUITS & VEGETA

Bacteria
Sources ……..Conveyances

- Leaking septic systems
- Inadequate control of manure
- Pet waste
- Wastewater Treatment Plants - CSOs
- Wildlife
- Streams
- Storm drains/outfalls
- Illicit cross connections
- Streets, roofs, parking lots

Where are the problems in the Sinclair and Dyes Watersheds?

Streams polluted with bacteria

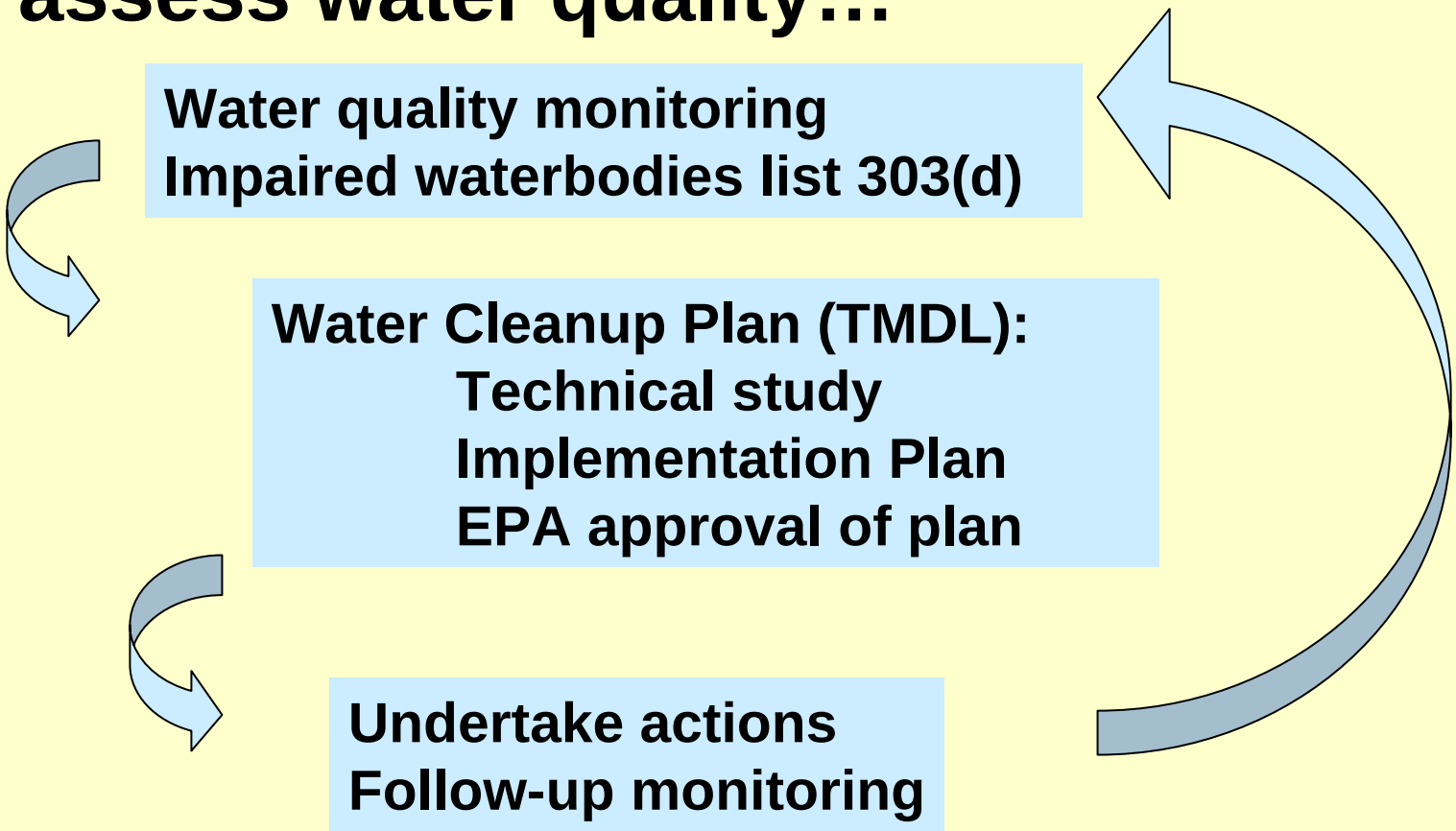
- **Dyes Inlet: Barker, Clear, Mosher, Ostrich, Pahrmann, Strawberry**
- **Sinclair Inlet: Annapolis, Blackjack, Gorst, Karcher, Sacco**

Marine waters closed to commercial shellfishing

-- Dyes Inlet – north and southeast sections

-- Chico Bay (restricted)

Clean Water Act (1972) requires states to assess water quality…



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Goals of Water Cleanup Plan

- **Protect aquatic life**
- **Waters safe for recreational use**
- **Fish, shellfish safe for commercial and recreational harvest**

To ensure these, waters must meet state water quality standards and DOH shellfish harvest standards

Water Quality *Study* vs. Water Quality *Plan*

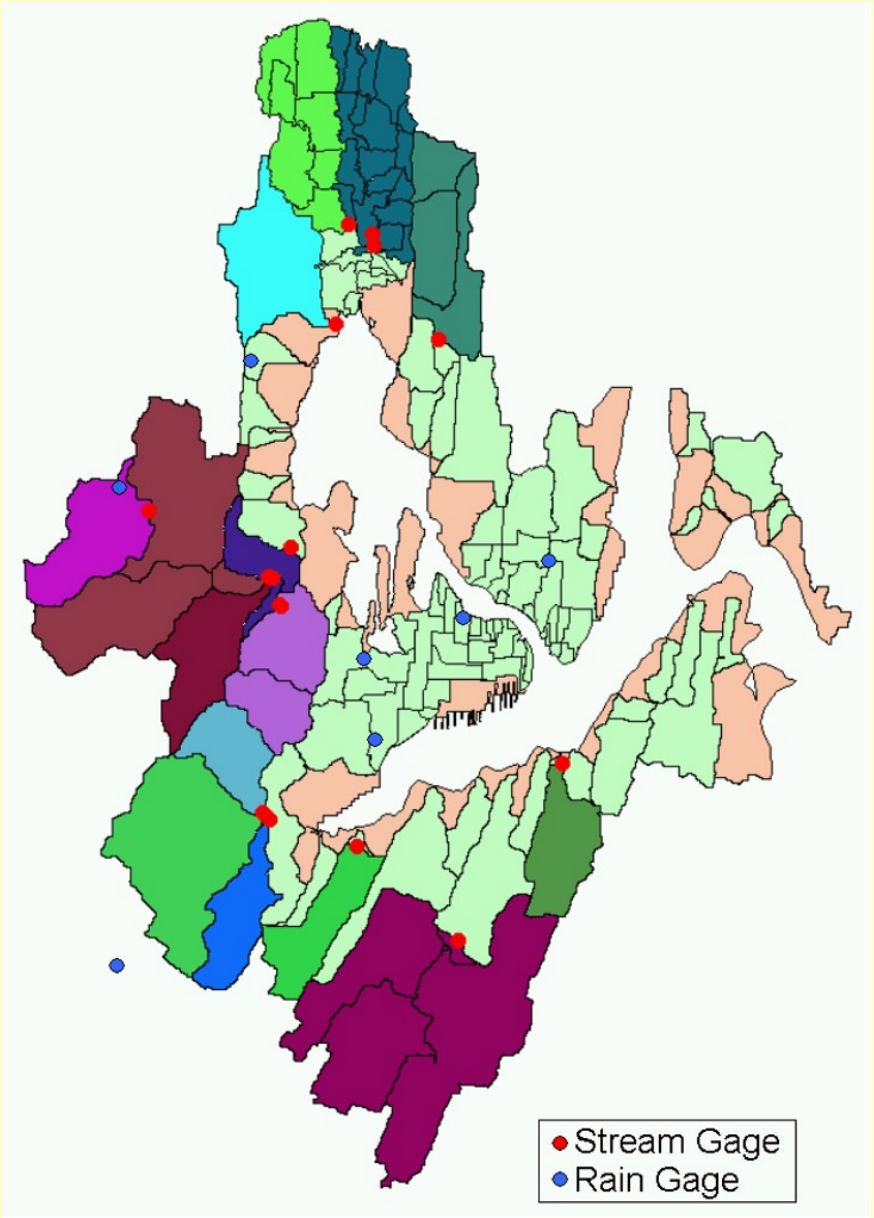
Study - Data & Analysis

- **How much bacteria can this water body accept & still meet stds?**
- **Prioritize sources for cleanup**

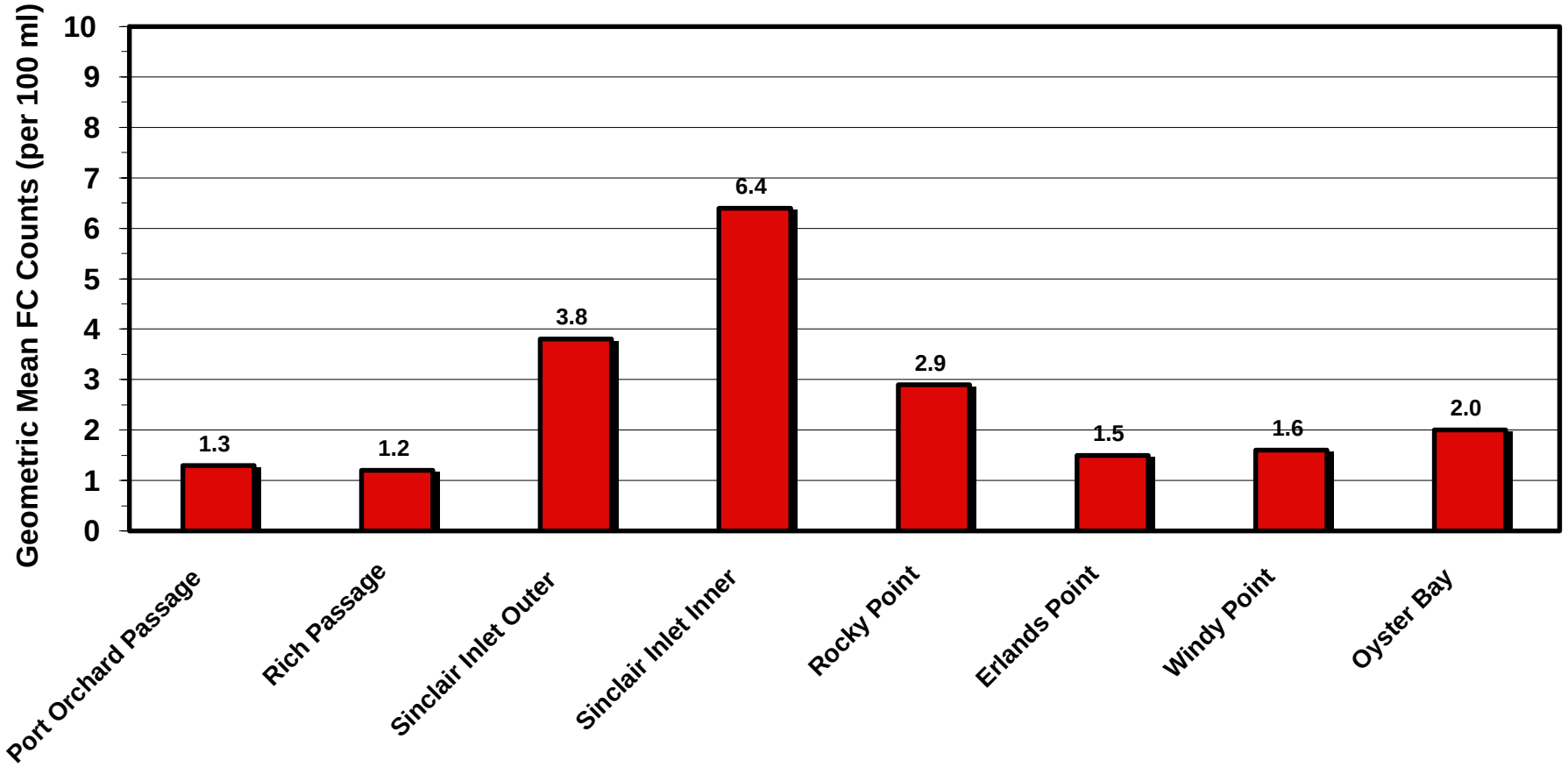
The Plan

- **What actions will reduce the pollution?**
- **What can local organizations do?**

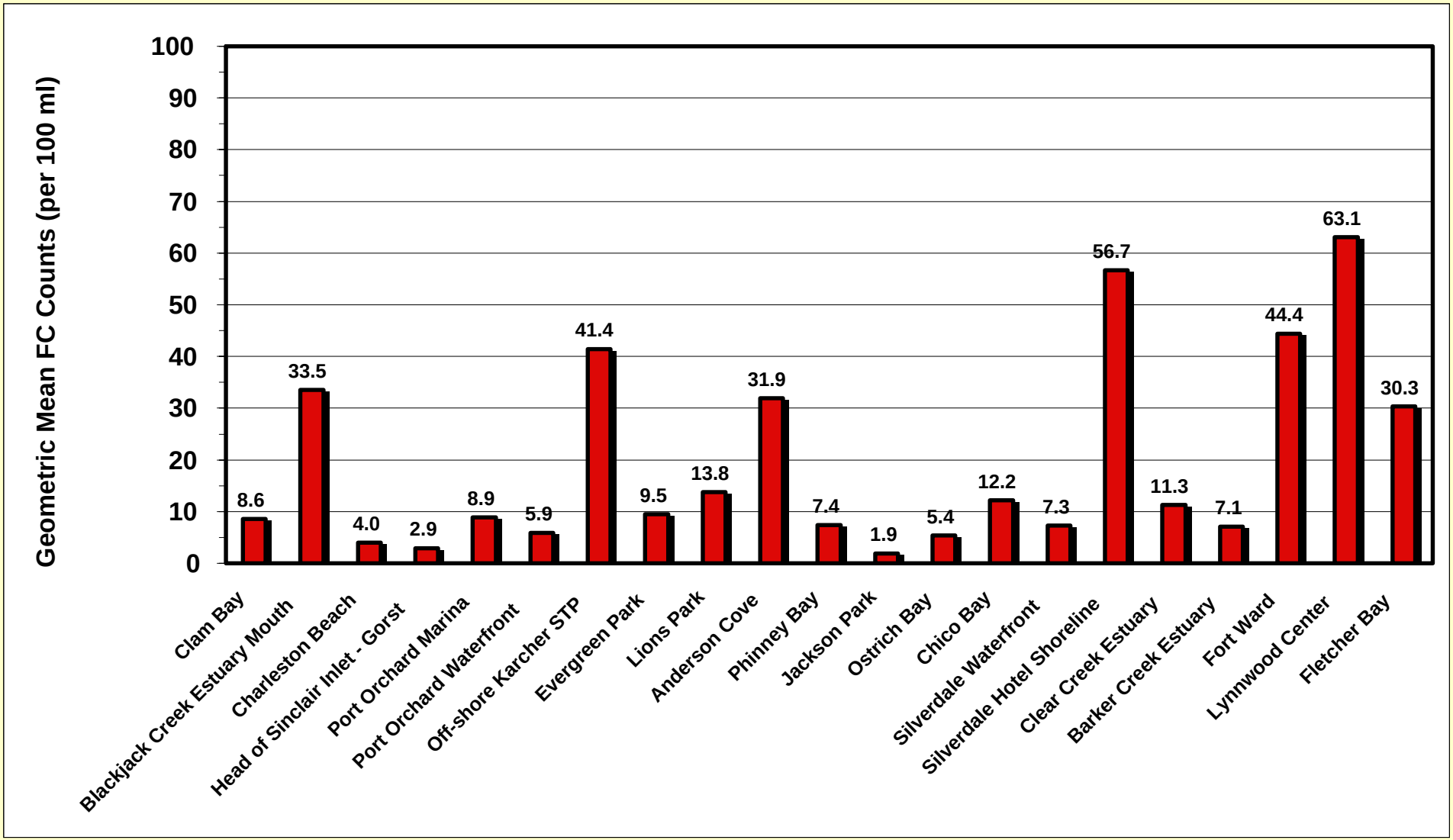
Many "subwater-sheds" drain to Sinclair and Dyes Inlets.



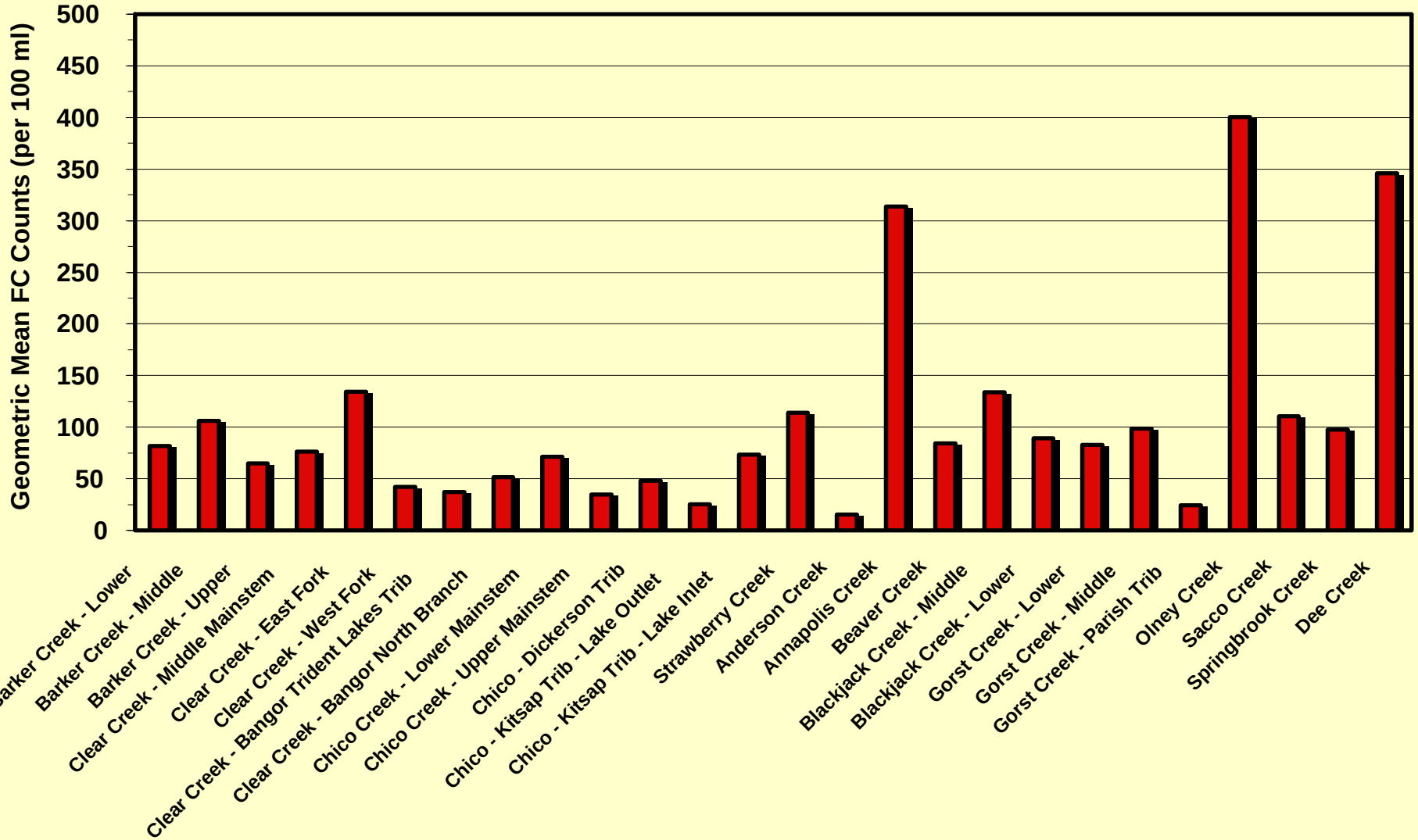
Preliminary Fecal Coliform Sampling Results for Marine Stations



Preliminary Fecal Coliform Sampling Results for Nearshore Stations



Preliminary Fecal Coliform Sampling Results for Stream Stations

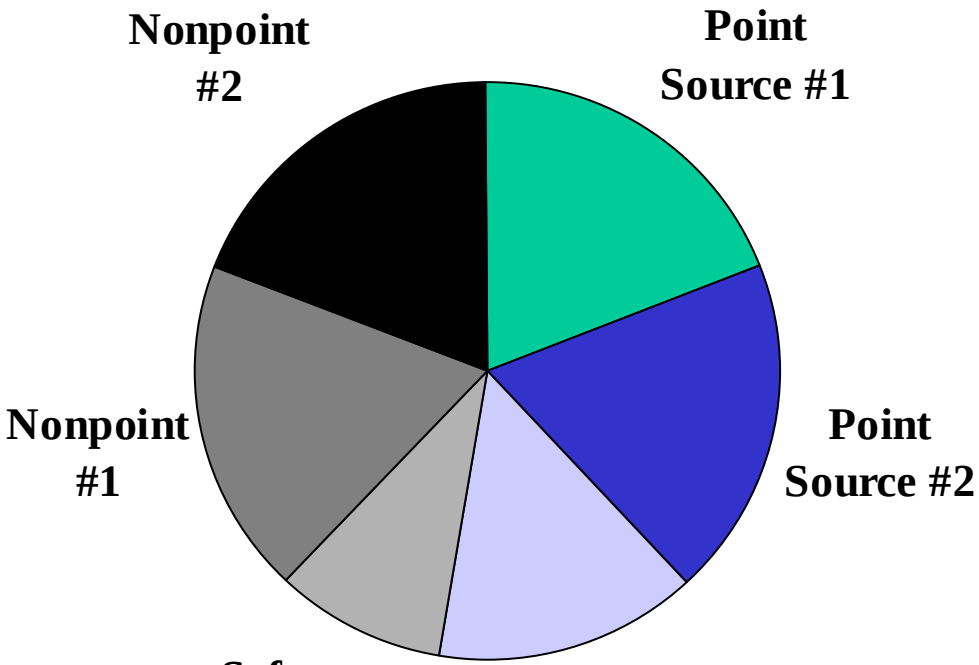


Watershed model linked to dynamic marine model

- **Data inputs – measured stream, stormwater and nearshore counts of bacteria**
- **Watershed model uses precipitation, storm size to generate streamflow and outfall discharge**
- **Watershed model results are fed into the dynamic marine model to predict the “where” and “when” and “how much” of a storm**

TMDL ALLOCATIONS –

The TMDL pie contains the maximum amount of pollutant divided into allocations for each source.



Local organizations will help develop a plan for implementation

What works?

- ***Further identifying & correcting sources – Kitsap Health's PIC program***
- ***Kitsap Conservation District – working with animal owners***
- ***Public education – pet waste***
- ***City, County stormwater programs***
- ***City, County planning agencies***
  - ***Incentives for Low Impact Development***
  - ***Enforce critical areas protection***

What you can do

- **Participate in the Community Advisory Committee**
- **As a watershed resident:**
  - **– No more washing cars in the driveway**
  - **– Pick up after your pets/manage manure**
  - **-- Be an enlightened boat owner**
  - **-- Have your septic tank inspected!!!**
  - **-- Ask city/county planning depts to encourage Low Impact Development**

Sampling Team in Gorst Creek